

Title (en)

Adjacent frequency amplitude reduction system and method

Title (de)

Verfahren und Vorrichtung zur Reduzierung der Amplitude der Nachbarfrequenzen

Title (fr)

Procedé et dispositif pour la reduction d'amplitude des fréquences adjacentes

Publication

EP 1182788 B1 20090930 (EN)

Application

EP 01301959 A 20010305

Priority

US 64364700 A 20000822

Abstract (en)

[origin: EP1182788A1] A band edge amplitude reduction system changes the filtering characteristics of a receiver based on the amplitude of signal(s) adjacent to an edge of the operating band of the receiver and/or of signals not under the power control of the receiver. For example, the receiver measures the power level over a bandwidth at the band edges of the operating band of the receiver. If the signals adjacent to the operating band are strong enough relative to the signal power within the operating band, overload protection circuitry changes the filtering characteristics of the receiver to improve the attenuation of the signal(s) from the adjacent band(s). In certain embodiments, the overload protection circuitry switches in filter(s) with a narrower bandwidth to attenuate the signal(s) from adjacent band(s) at the edge(s) of the operating band of the receiver, thereby preventing interference with or the overload of the receiver by signals from outside the operating band and/or not under the power control of the receiver.

IPC 8 full level

H04B 1/10 (2006.01)

CPC (source: EP US)

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Cited by

KR101101388B1; GB2467858A; GB2394847A; GB2394847B; EP1679807A1; FR2880747A1; US7280616B2; WO2010020557A1; WO2005022766A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 01301959 A 20010305; DE 60140034 T 20010305; JP 2001251033 A 20010822; US 64364700 A 20000822